

PTO/SB/05 (03-01) 10/31/2002. OMB 0651-0032

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

020022 Attorney Docket No. Alan F. Heyduk First Inventor PROCESS FOR PHOTOCATALYSIS ....

(Only for new nonprovisional applications under 37 CFR 1.53(b))

EU150766469US Express Mail Label No.

See MPEP chapter 600 concerning utility patient application contents.   See Internatinal Form (e.g., PTO/SB/17)   Fee Transmittal Form (e.g., PTO/SB/17)   To Denote the processing of the pro	APPLICA	TION ELEMENTS		ADDRESS TO: Assistant Commissioner for Patents  Box Patent Application			
Computer Program (Appendity)	See MPEP chapter 600 cond	cerning utility patent application conten					
2. X Septification   Total Pages   163   Specification   Sequence Listing on: Cross Reference to Sequence Isiting appendix Statement Regarding Fed sponsored R & D. Reference to sequence isiting, at table, or a computer program listing appendix Specification   Sequence Listing on: CD-ROM or CD-R (2 copies); or Specification   Total Pages   Specification   Specification   Sequence Listing on: CD-ROM or CD-R (2 copies); or Specification   Sequence Listing on: CD-ROM or CD-R (2 copies); or Specification   Sequence Listing on: CD-ROM or CD-R (2 copies); or Statement Sequen	1. Submit an original and a	duplicate for fee processing)					
aComputer Readable Form (RFF) Descriptive title of the Invention Cross Reference to Related Applications Statement Repairing Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure  4. \( \times \) Drawing(s) (35 U.S.C. 113) [Total Sheets   10 \) Drawing(s) (35 U.S.C. 113) [Total Sheets   10 \) Drawing(s) (35 U.S.C. 113) [Total Pages   10 \) BReference to detail the Disclosure  4. \( \times \) Drawing(s) (35 U.S.C. 113) [Total Sheets   10 \) Drawing(s) (35 U.S.C. 113) [Total Pages   10 \) BReference to detail the Disclosure (Mrein there is an assignee)  Accompany in Papers (cover sheet & document(s)) 11English Translation Document (if applicable) 12Information Disclosure   Copies of IDS Statement Quality Translation Document (if applicable) 13Prefirmingry Amendment 14Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15Certified Copy of Priority Document(s) 16Description Data Sheet under 37 CFR 1.76:				8. Nucleotide and/or Amino Acid Sequence Submission			
- Cross Reference to Related Applications - Statement Repairing Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4.	3. (preferred arrangement	t set forth below)		a. Computer Readable Form (CRF)			
Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Claim(s) Abstract of the Disclosure  A Summary of the Invention Reference to Sequence (if filed) Detailed Description Claim(s) Abstract of the Disclosure  A Subtract of the Disclosure  A Subtract of the Disclosure  A Subtract of the Disclosure  A Summary of Su	- Cross Referenc	e to Related Applications					
or a computer program listing appendix Background of the Invention Brief Summary of the Invention Invent							
- Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4.	or a computer p	rogram listing appendix					
Detailed Description - Claim(s) - Abstract of the Disclosure  4.	- Brief Summary	of the Invention		ACCOMPANYING APPLICATION PARTS			
- Claim(s) - Abstract of the Disclosure  A. \[ \infty \] Drawing(s) (35 U.S.C. 113) \[ Total Sheets \] \[ \frac{40}{9} \] \]  5. Oath or Declaration \[ Total Pages \] \[ \frac{1}{11} \] \[ \] English Translation Document (if applicable)  5. Oath or Declaration \[ \frac{1}{12} \]							
Abstract of the Disclosure  4.	- Claim(s)			37 CFR 3.73(b) Statement Power of			
A. L. Drawing(s) (35 U.S.C. 113)   Total Sheets   Total Pages   1   12   Information Disclosure   Copies of IDS Statement (IDS)/PTO-1449   13.   Preliminary Amendment   14.   Return Receipt Postcard (MPEP 503) (Should be specifically itemized)   14.   Return Receipt Postcard (MPEP 503) (Should be specifically itemized)   15.   Certified Copy of Priority Document(s) (if foreign priority is claimed)   16.   Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(3). Application Data Sheet See 37 CFR 1.76   16.   Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(3). Application Data Sheet under 37 CFR 1.76:   Continuation   Divisonal   Continuation-in-part (CIP)   Of prior application based Sheet under 37 CFR 1.76:   Continuation   Divisonal   Continuation-in-part (CIP)   Of prior application and in a preliminary amendment, or in an Application and sheet under 37 CFR 1.76:   Croup Ad Unit:   Croup Address   Croup Ad Unit:   Croup Address   Cr	- Abstract of the						
5. Oath or Declaration [Total Pages ]   12.   Statement (IDS)/PTO-1449   Citations   13.   Preliminary Amendment   13.   Preliminary Amendment   14.   14.   15.   Preliminary Amendment   16.   Prior application Preliminary Amendment   16.   Prior application Data Sheet under 37 CFR 1.76:   Prior application Data Sheet under 37 CFR 1.76:   Prior application Data Sheet under 37 CFR 1.76:   Prior application and preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application information Data Sheet under 37 CFR 1.76:   Prior application Data Sheet under 37 CFR 1.76:   Prior application Prior application Data Sheet under 37 CFR 1.76:   Prior applicati	4. X Drawing(s) (35 U	I.S.C. 113) [Total Sheets 40	]				
b.	5. Oath or Declaration	[ Total Pages	j	12. Statement (IDS)/PTO-1449 Citations			
b	a. Newly execu	uted (original or copy)					
16.   Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i), Applicant must attach form PTO/SB/35 or its equivalent.   17.   Other:	b (for continual	tion/divisional with Box 18 completed)		(Should be specifically itemized)			
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:    Continuation				15. Certified Copy of Priority Document(s) (if foreign priority is claimed)			
6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:    Continuation   Divisional   Continuation-In-part (CIP)   of prior application No				(b)(2)(B)(i). Applicant must attach form PTO/SB/35			
or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of pnor application No	6. Application Data	Sheet. See 37 CFR 1.76		· — ·			
Continuation Divisional Continuation-In-part (CIP) of prior application No							
Prior application information.  Examiner							
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS    Customer Number or Bar Code Label   Correspondence address below			IP)				
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS    Customer Number or Bar Code Label							
19. CORRESPONDENCE ADDRESS  Customer Number or Bar Code Label  It is series as 11 11 11 11 11 11 11 11 11 11 11 11 11	Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.						
Customer Number or Bar Code Label    Correspondence address below	The incorporation can only be						
Name  26285  PATENT TRADEMARK OFFICE  City  State  Country  Telephone  Fax  Name (Printi Type)  Bernard G. Pike  Registration No. (Attorney/Agent)  Address  Address  Registration No. (Attorney/Agent)	<del></del>	19. CURRESPO	NDENC	E ADDRESS			
Address City State Country Telephone  Registration No. (Attorney/Agent)  Address  Address  Registration No. (Attorney/Agent)  Address  Address  Address  Registration No. (Attorney/Agent)  Address  Address  Address  Registration No. (Attorney/Agent)  Address  Addre	Customer Number or Bar Co	ode Label (fissiir Custar - 1		or Correspondence address below			
Address City State Zip Code Country Telephone Fax  Name (PrintiType) Bernard G. Pike Registration No. (Attorney/Agent) 46,993	Name		IAN DIN IN				
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/ / / / / / /	Name (Print/Type)	Bernard G. Pike		Registration No. (Attorney/Agent) 46,993			
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Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 901.00
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Co	omplete if Known
Application Number	
Filing Date	
First Named Inventor	Alan F. Heyduk
Examiner Name	
Group Art Unit	
Attorney Docket No.	020022

METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)						
Check Credit card Money Other None			3. ADDITIONAL FEES						
Deposit Account:		Large Entity Small Entity							
Deposit Account	11-111	0		Fee Code	Fee (\$)	Fee Code	Fee e (\$)	Fee Description	Fee Paid
Number				105	130	205	65	Surcharge - late filing fee or oath	
Deposit Account Name	Kirkpatr	ick & Lock	hart LLP	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
_,		ized to: (check all th	* * * * * * * * * * * * * * * * * * * *	139	130	139	130	Non-English specification	
-	(s) indicated bel		any overpayments	147	2,520	147	2,520	For filing a request for ex parte reexamination	
≓' '	•		cy of this application	112	920*	112	920*	Requesting publication of SIR prior to	
	(s) indicated bei lentified deposit	low, except for the	ning ree					Examiner action	
o tile aboveio		ALCULATION		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<u> </u>
I. BASIC FILING FEE			115	110	215	55	Extension for reply within first month		
Large Entity				116	400	216	200	Extension for reply within second month	
Fee Fee	Fee Fee	Fee Description	Fee Paid	117	920	217	460	Extension for reply within third month	
Code (\$)	Code (\$) 201 370	Utility filing fee		118	1,440	218	720	Extension for reply within fourth month	
106 330	206 165	Design filing fee	370.	128	1,960	228	980	Extension for reply within fifth month	
107 510	207 255	Plant filing fee		119	320	219	160	Notice of Appeal	
108 740	208 370	Reissue filing fee		120	320	220	160	Filing a brief in support of an appeal	
114 160	214 80	Provisional filing for	e	121	280	221	140	Request for oral hearing	
1	١		(A)	138	1,510	138 1	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 370.00 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE			140	110	240	55	Petition to revive - unavoidable		
2. EXTRA (	CLAIM FEES		AND REISSUE	141	1,280	241	640	Petition to revive - unintentional	
			elow Fee Paid	142	1,280	242	640	Utility issue fee (or reissue)	
Total Claims	<u> </u>		<u>  405</u>	143	460	243	230	Design issue fee	
Independent Claims	6 - 3*	*=[_3_] × <u></u> /	2 = 126	144	620	244	310	Plant issue fee	
Multiple Deper	ndent		=[]	122	130	122	130	Petitions to the Commissioner	
				123	50	123	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Small Entity Fee Fee	Fee Descriptio	n	126	180	126	180	Submission of Information Disclosure Stmt	
Code (\$)	Code (\$)		_	581	40	581	40	Recording each patent assignment per	
103 18	203 9	Claims in excess	of 20					property (times number of properties)	
102 84	202 42	Independent clain		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
104 280	204 140	• •	nt claim, if not paid	149	740	249	370	For each additional invention to be	
109 84	209 42	** Reissue indepe over original pa						examined (37 CFR § 1.129(b))	
110 18	210 9	** Reissue claims		179	740	279	370	Request for Continued Examination (RCE)	
·	-	and over origina	u patent	169	900	169	900	Request for expedited examination of a design application	
	SUB	TOTAL (2)	(\$) 531.00	Other	Other fee (specify)				
••		.,		*Reduced by Basic Filing Fee Pard SUBTOTAL (3) (\$) -0-					-0-
**or numbe	r previously paid	d, if greater; For Rea	ssues, see above	L/GO	aced by	Dasi	o r mily	Tee and OODIVIAL (O)	

SUBMITTED BY				Complete (ii	applicable)
Name (Print/Type)	Bernard 6	Pike	Registration No. 46,993 (Attorney/Agent)	Telephone	(412) 355-8620
Signature	Om 1	Inc		Date	2-26-2002

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